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Lab Exercise 8– Creating a VPC in Terraform Objective:

Objective:

Learn how to use Terraform to create a basic Virtual Private Cloud (VPC) in AWS.

Prerequisites:

- Terraform installed on your machine.
- AWS CLI configured with the necessary credentials.

Step 1 Create main.tf

Step 2

```
Initializing provider plugins...
Reusing previous version of hashicorp/aws from the dependency lock file
- Using previously-installed hashicorp/aws vs.31.0

Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see any changes that are required for your infrastructure. All Terraform commands should now work.

If you ever set or change modules or backend configuration for Terraform, rerun this command to reinitialize your working directory. If you forget, other commands will detect it and remind you to do so if necessary.

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
+ create

Terraform will perform the following actions:

# aws_subnet.my_subnet[0] will be created
+ resource "aws_subnet: "my_subnet" {
+ arn
- (known after apply)
+ assign_ipv6_address_on_creation = false
+ availability_zone_id = (known after apply)
+ cidr_block = "i0.0.1.0/24"
+ enable_resource_name_dns_arecord_on_launch = false
+ enable_resource_name_dns_aaaa_record_on_launch = false
+ enable_resource_name_dns_aaaa_record_on_launch = false
+ id = (known after apply)
+ ipv6_cidr_block_association_id = (known after apply)
+ ipv6_cidr_block_association_id = (known after apply)
+ ipv6_native = false
+ map_public_ip_on_launch = false
+ map_public_ip_on_launch = false
+ rue - vone id - (known after apply)
+ one id - (known after apply)
```



Step 4

```
Apply complete! Resources: 3 added, 0 changed, 0 destroyed.

PS D:\Sem 6 DevOps\SPCM\Lab\My Lab Files and PDFS\aws-terraform-demo> terraform destroy aws_vpc.my_vpc: Refreshing state... [id=vpc-041946f8ca8bb5008] aws_subnet.my_subnet[0]: Refreshing state... [id=subnet-0d1ba83f51daa51c8] aws_subnet.my_subnet[1]: Refreshing state... [id=subnet-0c5f3a11db3c32d99]
```